# AMERICAN FARMER.

# rural economy, internal improvements, prices current.

" O Fortunatos nimium sua si dona norint " Agricolas. . . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, MARCH 17, 1820.

NUM. 51.

#### AGRICULTURE.

the face of the first year; (the season you will find it less injured by the frost, than the dry heat It is gypsum that has this effect on soap. But independent of the first year; (the season you will find it less injured by the frost, than the dry heat It is gypsum that has this effect on soap. But independent of these mere chemical solutions, these to strength to withstand. Turnips I till largely, habit of turning in clover lays knows that the wheat stubble is always well set with young cattle and hogs; an account of which, and the wheat stubble is always well set with young clover, blue and some green grasses, which afford a most excellent pasture, and will enagiven by an account of these mere chemical solutions, intension is (like other stones) continually crumbling to atoms by the agency of electicity, light, temperature, water, and find great advantage in feeding them to my air, disturbance and mixture. Every one of which mode of cultivation, will perhaps be hereafter farming. These are the modes intimated in my former paper by which limestone is desolved.

If the ignorance or the avariee of the farmer cause. afford a most excellent pasture, and will ena-given by an afford a most excellent pasture, and will enable you to keep double the quantity of sock,
that your land would otherwise feed, particularly if you sow on your wheat, half the n ual directly, and when eaten close, much injured by the sun; but when combined in this way with the na ural grass, one acre is I think equal to four without it. It also gives you the advantage of a grass lay for your corn, which upon thin land, or indeed any other kind, I to make a productive corn crop from a stubble; I now resume the subject of lime, began in your think very important, never having been able

AGRICULTURE.

FOR THE AMERICAN FARMER.

A GOOD ROTATION OF CROPS, Proved by actual experiment.

March 10, 1822.

MR. SKINNER,

SIR,—Having settled upon a poor and worm out farm, and having derived great advantage, both in the improvement of my land and stock, from the following course of crops, ble the quantity of clover seed, that will be contained as may be disposed to try it.—The hay, and you will also be enabled to let the closin the finer particles mixed in the soil, renders it incitizens as may be disposed to try it.—The hay, and you will also be enabled to let the closin fine and stock of four of five lots of from 15 to 20 acres each, 500 bushels of such lime.

How much more readily may we not expect the compounds with acids to be affected? The scales of chemical bodies that decompose each other, exhibit ous various articles that decompose gypsum and samong the rest carbonate of magnesia. If then a decompose in using gypsum, disappointment is the result; for the action of a few bushels of corroded limestone could not be perceived on the compounds with acids to be affected? The scales of chemical bodies that decompose each other, exhibit ous various articles that decompose gypsum and swow among the rest carbonate of magnesia. If then a decompose in using gypsum, disappointment is the result; for the action of a few bushels of corroded limestone could not be perceived on the compounds with acids to be affected? The scales of chemical bodies that decompose each other, exhibit ous various articles that decompose e In addition to the six fields above named, I take quite common in some parts of England to use 200 to No. 1.—corn wheat clover wheat pasture pasture.

2.—wheat clover wheat pasture pasture corn.

3.—clover wheat pasture pasture corn.

4.—wheat pasture pasture corn wheat.

5.—pasture pasture corn wheat.

6.—pasture corn wheat clover wheat pasture.

7.—pasture corn wheat clover wheat pasture.

8.—pasture pasture corn wheat.

8.—pasture corn wheat clover wheat pasture, will yearly get better; you will have abundance of both hay and pasture, for upon one of the fields of both hay and pasture, you may always, the year.

8.—pasture corn wheat clover wheat pasture.

8.—pasture corn wheat clover wheat pasture.

9. pasture pasture corn wheat clover pasture.

9. pasture pasture pasture pasture pasture pasture pasture pasture.

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9. pasture pasture pasture pasture

FOR THE AMERICAN FARMER.

THE THEORY AND USE OF LIME AND PLASTER OF PARIS.

Continued from page 373. Elmwood March 12, 1820.

\*No person should say any thing against a rotation, porated; and that all the preparations of lime, are more that has proved beneficial by an actual experiment; or less of the same nature. But I will not assert that but at the same time we cannot help thinking, that it may not be overrated; nor that there are facts increased of two years for more pusture, the latter one wanting to grove that the beneficial quality may not but at the same time we cannot help thinking, that it may not be overrated: nor that there are later them, and to unite them once more in the bonds or instead of two years for mere pasture, the latter one wanting to prove that the beneficial quality may not would be better employed by a crop of buck wheat be withheld or destroyed by undue mixture with other torios in New-England, shew us where this articles only rest, but a cordial for the ensuing labour.

Thus we find that lime which contains much magnesis, may be laid on land to six, and even ten to be found, and give us another reason for gypism the contains much magnesis.

The provided into the ground in New-England, shew us where this articles only rest, but a cordial for the ensuing labour. ploughed into the ground, thus give us and give us and

citizens as may be disposed to try it.---The hay, and you will also be enabled to let the clofarm is to be divided into six fields; the course
ver in the field intended for wheat, lay and rot
during the summer, and turn the whole under dusive generations, and particularly for the prudent and
Fields 1st year. 2nd. 3d. 4th. 5th. 6th. ring the fall; a mode strongly recommended by
No. 1.—corn wheat clover wheat pasture pasture pasture pasture pasture. that excellent agriculturist Col Taylor of Corn.

is often injured by blue grass; and again upon from the other, I then change pasture alternate from putrifying vegetables about and beneath the surpoor ground the second summer you frequently. The lots I mow in the fall, afford sufficient and iron) is continually in a state of decomposition pasture to fatten several beeves without corn. I when wet: and must inevitably form gypsum where ed, and the ground then, is by no means in so prefer sowing the clover seed the beginning or it is present. The universality of both these ingregood a state for turning under for wheat, as middle of March, as the weather may suit, as I dients is evident from the universality of hard waters. the face of the first year; (the season you will find it less injured by the frost, than the dry heat It is gypsum that has this effect on soap. But inde-

quantity of clover seed: clover alone on our mated in the conclusion of it.] Edit. Am. Far. that bad usage will cause even the soil to revolt, and a separation of the various costituents may be effected .- A separation, natural or artificial is an unequivo. cal mark of sterility. Thus to find a bed of clay here, a flat of sand there, rocks and stones sticking out in various quarters, the calces of iron forming ores and ferruginous stones-The more precious salines and the remnant of mould washed off and taking post in some obscure swampy corner, beyond the destroy-ing plough! is to find destruction in full march, and only wants a little time to exhibit poverty realized my practice is to double furrow in the fall and plough out in the spring.

I now resume the subject of lime, began in your and tangible.—and when assisted, or brought about plough out in the spring.

I now resume the subject of lime, began in your and tangible.—and when assisted, or brought about by the bad conduct of its owner, we may surely give him all the credit of adding his mite to the curse

would seem that the earth, which is never idle, is intent upon one of two operations-either mineralizing varying temperature, from light, from air, and from some, more atmospheric gravitation as the lighter oystershell, which about the mouth (as we term it) water sometimes, at other times excess of water con-plants, that almost float in the air, and some, more is so delicately thin and flexible in young oysters, as water sometimes, at other times excess of water contribute; and especially a separation of the natural
soil and rest. To the latter a general commixture of
all the constituents and especially water and constant
with air, as mould, subterraneous and submarine the oyster; I leave that to chemists to determine. I
disturbance contribute; by which means the peculiar plants; some with earth and water as the cactus famielective choice, and intrinsic attraction of the ingredisturbance contribute. The solvent powers of each,
E. Flos zris will grow for years, and flower when
the dients are interrupted. The solvent powers of each,
but grow for years, and flower when
the dients are interrupted. The solvent powers of each,
but grow for years, and flower when
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but grow for years, and flower when
the dients are interrupted. The solvent powers of each,
but grow for years, and flower when
the dients are interrupted. The solvent powers of each,
but grow for years, and flower when
the oyster; I leave that to chemists to the inspect, besides
with air, as mould, subterraneous and submarine the oyster; I leave that to chemists to the option. It is a power in the option of the opti from another in which the plant is concerned.

over to chemistry: fermentation, decomposition or roots up, the other stands by to root away. Some oysters are from salt rivers. rot ensue—or if this process is artificially hurried by require little, or no assistance from gravitation, heat

The plant lays down all and light in sustaining their posture, as the various roasting, and from the very minute greasy adhesions that it obtained from the earth, as well as all that it procumbent plants, which form (in this particular) to the shells when taken from the river; this last has claborated out of it.—The more precious salines a striking contrast with the necessities of corn; as source is scarcely worth noticing, but there may be are thus collected of formed, viz: alkali, nitre, ammay be proved by the inspection of a field, on a fine a little barilla in it.

In moniacal salts, as also carbon. Thus vegetation seems to stand between two processes.—To interrupt the would appear willing to dispense with the electric first, and promote the second, are equally the objects fluid, as the mimosa.

The fifth and last article that I know, is the animal matter, produced in part from the heart usually left in the shell, and the long polypus sponge like adheof the true farmer. For these once organized bodies "Weak with nice sense the chaste mimosa stands, and salines are truely the salt of the earth in agricul- From each rude touch withdraws her tender hands;

Those who hunt for a distinct pabulum to promote the growth of vegetation, are the alchymists of agriculture-no one article is entrusted with such treasure. Let them say lo! it descends from the clouds, or lo! it is in the earth-believe them not .- It is the line, but every stone and every metallic calx, and all tions it rests, and blind is the man who cannot perceive that is solid below, with all that is fluid above; ceive it; more imprudent he that refuses to attend to not only water, but air and light, with caloric and it.—When it is once arranged to perfection, it will be electric effluvia; to which I may add the gravitation perceived that the present generation have been but of all that is ponderable, and the attractions of all babes in the noble science of agriculture. be in vain for any man to assign each of these ele-nourishment of the plant from the laboratory, where with the ashes, which will form barilla, and the rest mentary bodies a place in the vegetable economy, yet it has lost its analogy to the animal economy, and on-\* The brok species and varieties of vegetation. Thus we find feed on, and air only to breathe on; and I trust I have worth notice. The species and varieties will grow in mere sand—more in sand and clay united—still more in sand, clay and lima with uncassing perfection.

cara tomentosa, which will yield 50 pr. ct. weight of ble matter to enrich the uncultivated minds of some that article, some more salines as corn, buckwheat, of our fellow farmers, and which uncultivated state, and artamesia, the former of which is said to yield has unfortunately, too often its type, in the arable BAGA. The perseverance of the writer in the the most potash per pound (from the stalk) of any field.

agriculture—whilst separated, they feel strongly dis veroved, than refuted.—Some more water as the order find out the ingredients of this compound, and this toxed to form concretions and insoluble masses. I aquatics, some, more air and light, as the plants is absolutely necessary if we mean to use it; for it hich refuse to grow under larger plants, some, more must be imitated to procure a sufficiency electicity, as the flax, which will grow an inch in a or vegetating. To the former state, exclusion from few hours, by the artificial application of electricity, portion of litter and lime from the thin lamina of the

mineralizing act of the earth, is to be distinguished der the name of barren pine, has natural buckets or roasted mud, that adheres more or less to all oysfrom another in which the plant is concerned. Thus at the death of the plant, a new state of things ensue. The attractions which distinguish life having with both lightand air as the tuber, (truffles) so greething the dead vegetable is delivered dily sought after by hogs and epicures, that what one the mud and the shells are highly seasoned. All our

Oft as light clouds o'erspread the summer glade, Alarm'd she trembles at the moving shade; And feels alive through all her tender form, The whisper'd murmurs of the gathering storm."

DARWIN.

result of all combined. Not only earth and every sa-philosophy of the rotation of crops, on these disproper-It may be much improved no doubt by actual experi-

time, with unceasing perfection, &c.

To particularize, some appear to require more sicious, will soon inflame the mass. Methinks I hear licious earth, as the Bamboo, which gives fire with already the critics voice as so many oystershells steel, some more argilaceous earth, as the forest trees, cracking and flying from the kiln. "The wood, the which are said to reproduce clay, when they have hay, the stubble," will be consumed of course; but been suffered to fall and rot; some more lime, as the I trust there will be left a good heap of incombustic cara tomentosa, which will yield 50 ns. et weight of his metter to enrich the uncentrivated minds of some.

the most postal per pound in the state of any held.

Having now, as I suppose, tired those who despise ragements and several disappointments in an form these salts, their necessities for them is rather all that is theoretical; I hasten to produce the compost alluded to in the first part of this paper, published on the 10th of February. It is the small broken my acquaintance in Massachusetts, agrees. I ly interrupted by loam, as every mechanic in brick or refuse, that remains after removing heaps of roasted my acquaintance in Massachusetts, agrees, I oystershells, as thrown out by families, or oyster-houses. I am rather an enemy to composts; but nections and argillacious earths combined; or their action on each other.

1 am persuaded from a consideration of the great analogy of the vegetable family to the animal, (without of true physiology, in favour of chemistry by assigned the physiology, in favour of chemistry by assigned is the physiology, in favour of chemistry by assigned the graces in vegetable nour lashment. We cannot make such application yet has been found it quicker than the former, and did not injure its object of the Ruta Baga given to his milch cows, wertheless, when they have been found by experience the produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and did not injure its object of the Ruta Baga given to his milch cows, produced yellow butter, and flavour. I had expressed my fears, as to flavour. I had expressed my fears

On inspection, the first article that we observe, is a

sions to many oysters though not to all, and perhaps the thin lamina of the oyster .- These five articles I think form the whole compost. It may be coarsely imitated by 10 bushels of shell lime\*—80 bushels of burned earth from low ground, or from the river, if possible—5 bushels of ashes—2 bushels of salt, and 3 oushels of animal matter, in all 100; which will make I have been thus minute, in order to lay bare the a good, and not a very dear top dressing for an acre. time will consume the fish, or cuttings, if they are that is imponderable, all conspire in the formation of In the statement I have exhibited of lime and plas-lime will consume the fish, or cuttings, if they are the great family of vegetation. Although it would ter, I have attempted to withdraw the theory of the employed. The salt should be dissolved and mixed

In your number 45, I read with pleasure the

<sup>\*</sup> The broken piece of shells not burned are not

<sup>†</sup> Perhaps this is the Chinese cake.

ly escaped my memory, when I wrote you or

stock."—" They require rich land, or a great make, of the information those Memoirs conin the stead of discord, as well as a cure for breachy
deal of manure."—p. 284. One farmer obtain on the subject of the Mangel Wurtzel:
cattle, and other live stock.

or very old; and yet that there is no safety to papers on this subject, appear to be in the sented was truly awful; buildings, as well as fences, the farmer without them; it must be recoltional fourth volumes.—I here transcribe lected, that turnips are generally given whole one passage, because it bears on the question to the stock, and that it will require a consider-discussed in the former part of this letter. able effort of the teeth to enter the large and hard roots of Ruta Baga. But the security they afford to the farmer, arises from their leaves [of the Mangel Wurtzel] produce to seasons of fruit. Good hedges are a guard against superior hardiness to endure frost (compared two or more crops in the seasons of summer depredations of this kind, and if bold enough to pass superior hardiness to endure frost (compared two or more crops in the seasons of summer depredations of this kind, and if bold enough to pass with the common turnip) when left all winter and autumn; and both leaves and roots are in the ground, as is usual in Great Britain.—

If I rightly remember, Mr. Cotbett speaks of unlike Turnips or the (cabbage) species, communitate no bad taste to the milk, but much immunitate no bad taste to the milk, but much immunitate no bad taste to the milk, but much immunitate no bad taste to the milk, but much immunitate no bad taste to the same at any time of the deged, has a pleasing appearance at any time of the year, but when in full leaf, the lively green bordering to every field adds beauty to the crop it incloses, ing them. The English turnip-slicer, or principal crop; because they can leave them some equivalent instrument, I apprehend will all winter in the field, taking them up for their be found necessary to prepare them properly stock as wanted: whereas the Mangel Wurtgrass. be found necessary to prepare them properly stock as wanted: whereas the Mangel Wurt-grass. and expeditiously for all kinds of stock.

Ruta Baga, (and I think it entitled to great praise) I am inclined to think the Mangel Wurtzel is the more valuable root. It is as easy to be cultivated, only longer in growing -not annoyed, that I have observed, by any insect-more easily harvested-more tender in its texture, and more readily chopped into pieces in equal quantities much more nutritive-and according to the accounts of its cul tivation on strong lands in England, vastly nuine seed, of both roots, is essential. Mor than one or two experiments may be necessar to decide which of the two is entitled to preference, as to the main crops; while every in proving farmer will doubtless find his interes in cultivating both.

T. PICKERING.

Wenham, March 2, 1820.

the 4th of January. "The Swedish Turning sives the butter a superior colour, and lestaste of the vegetable." That is, less that other turnips, of which he has treated a page or two before. But it was added, that one ounce of saltpetre put into a gallon of cream, rendered the butter perfectly sweet.—Vol. Ii. Prom page 279, I had made the following notes: the Swedish Turnip superior to any other, a more nourishing food, and retaining frost. But they are so hard as to be very perincious to the teeth of stock, particularly the very young when shedding their teeth, or the very old; and yet (says Mr. Rennie,) "without them there is no safety nor security either for feeding, [fattening,] or breeding stock."—"They require rich land, or a great stock."—"The intended to the subject of the memoirs contains a summan and surprise stock."—"The presentation of March 3. I have this morning opened the farmer can make his calculation, according to labour

serves, "that where the soil is thin and dry, exhibiting merely the manner of preparing it is impossible to raise a good crop of Swedes, the ground by a ploughing and manufing—the ten prostrates the rail fencing, an instance of that under any management."

To understand what is here said of the bad—their products in leaves and roots—and their bourhood, a portion of which fell to my lot; it came effect, on the teeth of stock that are very young application for all sorts of live-stock. All the

zel must be harvested in autumn, and in some I shall now put one query to those who object to

T. P.

FOR THE AMERICAN FARMER.

# ON HEDGING-No. 6.

Continued from page 350. BY CALEB KIRK, OF DELAWARE.

tivation on strong tands in England, vasily more productive, yielding, as a common crop forty-eight tons per acre: while the crops of Ruta Baga seldom surpass, and generally fall cent and a quarter per rod annually, and that is to be short of twenty five tons per acre.—But to insure large crops, under the best culture, generally fall if neatness is dispensed with, and carelessness an attempt at live fence, by planting rows of ornamine seed, of both roots, is essential. More than triuming that the the seventh year time to five further noted, that the seventh year time the surface for the further noted, that the seventh year time the surface is sufficient on a farm, building and fuel arc that the seventh year time to a time the first planting is more properly the limit of cost in the principal use after the demand for fencing after planting is more properly the limit of cost in the principal use after the demand for fencing ceases, for those two purposes we have no substitute, but a considerable saving in expense and durability.

A great mistake is made by some that have made surface, the consequence will be a natural growth mental treat along the side of their intended live fence, by planting rows of ornamine seed, of both roots, is essential. More usbandman ought to guard against

abour necessary to be annually be stowed on every in their effects, they ought to be avoided. The Wal-axty perches, that is one day's work including board nut and the Cedur particularly; the former was

After all the eulogies bestowed on the way sheltered againsts the frosts of winter hedging on account of being tedious, or too long coming to maturity, and there are many who ob-ject on this ground: they look at the enjoyment as too distant, but if such objections were to predominate in farming, no improvement would be made of a permanent nature.

What proportion or percentage in value, should be annexed to a farm well hedged with living fencing, compared with one that was inclosed by perishable materials?-Would not the advance in value far exceed the expense that gave it that preference; less It might be further noted, that the seventh year timber is sufficient on a farm, building and fuel are

of thorn and every other production, that will accord-fence, especially on public roads, who might on the mig to soil and climate associate with it, producing a least reflection, see the impracticability of making a rugged and forbidding appearance, and affording hedge grow or flourish under any kind of large shelter for many pestiferious plants, such as every growth tree that must shade, and overpower the humble growth of thorn, even if congenial in their According to my estimate, seventy-five cents is the natures; but as some kinds are deleterious or hostile in my neighbourhood: from this statement each proved in a case of my own, as noted in a former

Comber; the latter has been amply demonstrated in when danger of detection was overwould resume and dress it therewith, or even Plaster Paris. This tivers instances, but one deserves notice.

My worthy neighbour Wm. Armor, who has done neuch at propagating the native thorn of Delaware—on the morning of our beginning to cut the last wheat spring, it is by some found most useful after to pwards of twenty years past, planted a hedge upon harvest a lot of excellent grain stood, the evening the first crop, when the dry weather has set the side of an avenue, leading from the old public previous, half been under the promising product, had in—and from analogy it appears most rational. road to his dwelling or mansion house, which had not been in any way molested by any depredatory. It is found useful on all descriptions of vegebeen previously planted by his ancestors with ever-foot, until he that night opened thoroughfare for all tables, and if put in with potatoes will produce the other cattle to follow him into the feast of luxury a wonderful effect.—Many parts of our countent yards distant from the cedars, believing them at that distance safe from any influence of the road.

Although he was ungovernable by reader forces. The Cocks' foot or Orchard grass, her become at that distance safe from any influence of the row of Although he was ungovernable by wooden fences, 1 trees, and his calculation might have been correct as never knew his attempting a thorn hedge of any kind; it regarded some kinds of timber—but not with the where he was enclosed with hedges, he was as harmcedur. It must be upwards of twenty years since the less as any other of the stock, and being an excellent thorns were planted, they grew, but very slow. I working bullock, induced me to pass by many instant I frequently observed their unhealthy appearance, ces of depredation, until his attack upon the harvest some years before I knew the cause—on inquiry, he field.—I am now clearly and decidedly settled in my informed me, it was the influence of the sadden. informed me, it was the influence of the cedars—my choice of fencing, either with thorn or stone I shall say further and some find half a bushel sown per acre ardent desire for the welfare of hedges, caused me to and permanent fencing—the stone I shall say further in ample supply. My neighbours have this propose the cutting down the cedars, but found his on hereafter. But the thorn if carefully and rightly year sold this seed at \$2—Millet, there is a veneration for the labours of his ancestry, in that or managed, is certainly worth attention where stone is very limited supply at \$3—Clover Seed, \$92. namental work, outweighed all considerations con- absent. cerning the hedge in that place, and it remains a monument of the antipathy that subsists between the comparative expense between hedging and rail fen. Timothy are little used in my immediate neighsoil, the reasons for which, in general we are ignorant forming a hedge. of, for although we assume to know much on that, as

rience on that subject enabled me to do-my views neglected in many parts that would be benefitted by inches in length, and 101 inches round the top. my power, to secure the product of his toils from practice of my valued friend Wm. West, the noted and more especially so, when amongst his live stock, the celebrated B. West, the painter. Maryland would there are depredatory dispositions; one animal of that the celebrated by attention to the above, as it is respectively. The weight of this carrot was 2 lbs. Inclination by success in making breaches, will very markably deficient in grasses. were to give the enquiring husbandman all the aid in attention to them-and some observations on the At about half its length, this root had appasoon draw others in the same practice.

I have observed a working ox of my own, after being turned out with other cattle that were harmless and gave no trouble to manage without him, as soon as he left company to search for plunder, there were certain others that would immediately follow after, knowing his ability to make way for them, to share in his plunder, one of his followers or pupils (if I may use the phrase) was the favorite heifer that was bred

depredations were made through wooden fences, and sirable to drop the crop of Oats, as exhausting such was his dexterity and strength, that nothing to the soil, but considered necessary to cleanse short of a good post and rail, and that new or other ways uncommonly strong would turn him, to remove it I shall this year substitute it by Millet,\* and a worm fence (as they are termed) was seemingly onif I can get a supply of clay ashes in time, top
ly sport for him, if the booty on the other side was ly sport for him, it the body on the other side was promising. I have frequently viewed him at the \*A very intelligent farmer in this neighbourhood, work, and the expectants waiting with anxiety for assures us that such is the tendency of Millet to harden his success—whilst concealed from his sight, the his land, that he would not permit it to be cultivated work would go on, but if I appeared in his view, all even though he could have done it at another's exoperations ceased, he would give over the attempt, pense. and leave the place until a more convenient time, but

effect his purpose.

I was never more mortified with his ingenuity than

cedar and thorn; the latter has the appearance of cing, until it became a necessary item in the forego-bourhood .-- Our soil is high and naturally poor age and decline—or rather that of being neither alive ing inquiry, preparing it for the view of others; and nor dead, this is the nearest idea of its situation, that I confess I was so led astray by the general improved in the constitutional natures. This subject is worth it, that when I made out the estimate as appeared in their constitutional natures. further pursuit by some abler hand; the antipathy the foregoing number, I had doubts on the correctand sympathy of the vegetable kingdoms, affords amness until I consulted my neighbours, who have been ple room for inquiry and discussion,—this inquiry propagating and pursuing the same mode of hedging might lead to the establishment of facts very useful—their calculations so well agree with mine, that I can vouch for those given to the public, being amply tation or manner of varying our crops, on the same sufficient to cover every item that is requisite in Mr. Skinner, forming a hedge

Having in the foregoing remarks on hedging en-deavoured to cast what light my attention and expe-and the cultivation of barley—both of which are much That of the greater

#### Occasional Extracts,

Near Philadelphia, March 8th, 1820.

RESPECTED FRIEND,

srom an excellent race for milk, and being estimated valuable, has obliged me to turn off the ox in the prime of his labour, rather than perpetuate that disposition amongst the other part of the stock, and to have the infection to take place amongst the best of later when young, would be mortifying indeed.

I therefore gave up the ox, and with him the trouble was at an end; it ought to be noticed, that those fore the grass is laid down.—It seems very described was a taken through wooden fences, and signable to drop the crop of Oats, as exhausting The usual course of husbandry in my neigh-worthy of a place in your collection.

Editor American Farmer.

latter article, instead of being used in the spring, it is by some found most useful after the Cocks' foot or Orchard grass, has become a great favorite, as a durable and productive one-it was long condemned from our ignorance, that the seed will heat in the sheaf if put together in a large body-but if carefully dried, it yields most abundantly of a good quato 10, expected to be lower-Herds Grass and

> I am very respectfully, Thy friend, JEREMIAH WARDEN, JR.

# Large Carrots.

York Springe, 4th Dec. 1819.

Sin,-On taking up our fall carrots a few days since, the size of several of them appear; well as many other points—experience daily furnishes evidence of our want of knowledge on agricultural more to communicate at present on hedging—points, that we suppose we are well acquainted with. As the time of sowing grass seeds is near at hand, which were as follows.

That of the greatest size, measured 174

The lesser one, a clear stem of 194 inches in length, and 101 in circumference at the top; weighed but I lb. 15 ounces.

My gardener who is an old and experienced one, having assured me that he had never seen any thing equal to these, I have made this small sketch which you may possibly think

# On Stall Feeding.

The following extracts from the article " Stall Feeding," Rees' Cyclopedia, may be of service. in solving the doubts of your Correspondents, " Friend," and 'a Subscriber."

"Stall feeding of bullocks with patatoes, given in different states of preparation, have

Sussex, and is much approved of by many. They there find that a beast of from one hundred and sixty stone dred and forty to one hundred and sixty stone weight, cats from one to two bushels of the roots in the course of the day, but consumes tense heat of the more southern latitudes. of hay, not much more than ten or twelve. The undersigned are of opinion that the chief barbeat of the pounds in that space of time." "And a careful that space of time." "And tice of fattening oxen with them, it is said, of a good nursery, where the farmer may apply with encrease the quantity, and to diminish the price of gave them up—from a conviction that, with well assured confidence in the certainty of obtaining good cider, and that wholesome beverage would in every advantage of breed, attention, warmth, fruit trees in all the variety, and of the genuine kind that proportion, supercede the pernicious use of ar-

ments carefully made, an ox from seventy to eighty stone, has been ascertained to eat someantee of responsible characters, whose only reward say 15 or 20 acres, in the vicinity of this city.—Havthing less than three hundred weight in the course of the day, besides chaff and hay; and attainment of the cheapest, most innocent, and health-a skilful nursery man, and one or more labourers, in small cows of about thirty stone, one hundred weight and three quarters in the same time. And in the Rev. Mr. Close's trials it was found.

invite your attention to the necessity and advantages dustry of the more thrifty and enterprising citizens of of which it is susceptible, they would far exceed the of forming a company for the purpose of collecting other states, thereby swelling the balance of trade, limits they have prescribed themselves; they conand propagating fruits of the best quality, we derive which for many years been constantly against us. Include, therefore, by congratulating their fellow cities attisfaction from the belief, that the mere anunciation is but natural however, that ignorance and improviment in all

vated in this state; is notorious almost to a proverb:

To illustrate in some measure the extent of the de see the establishment of a nursery encouraged, until hence, it is not unusual to see such peaches, for exmand, and the precarious nature of the supply from it shall have attained that state of perfection and useample, as every farmer might have, selling in our abroad, and the precarious nature of the supply from it shall have attained that said on precarious nature of the supply from it shall have attained that said on the precarious nature of the supply from it shall have attained that our country and posterity, enjoying its market, at the rate of four dollars per bushel; and hand, just received by one of the undersigned, from fruits, shall jointly regard it as a monument of the other fruits of the best quality, high, in proportion; Pennsylvania, dated the third inst.

Pennsylvania, dated the third inst.

Pennsylvania, dated the third inst.

JONEPH TOWNSEND departments of science or professional skill.

is the cause of the scarcity, and the imperfection of were fit for planting, but they will be far short of the the various kinds of fruit in this state? Is it to be at quantity required.

There is a nursery and purchased at that the various kinds of fruit in this state? Is it to be at quantity required.

There is a nursery and purchased at that the various kinds of fruit in this state? Is it to be at quantity required.

every advantage of breed, attention, warmth, such and cleanliness in regard to the animals, they would not pay more than four pehce the bushel."

At present, Nursery-men abroad, whose sole object mentioned as a remarkable fact, not to be disregarding and proportion of this way in this use."

Further, the Swedish turnip when it is cultivated in a proper manner, is a most valuable root, when used with this intention.—"In some trials which we have lately attended to, it was found to have the advantage, nearly in the proportion of one fourth; and in other experiments, it is said to have gone still farther in this use."

"And the proportion in which they are consumed by the fattening stock, has been found to be something more than a thiad of the weight of the cattle by some; but by others, about a third in the day, as stated in the Gental and the surface and habits, select the various fruits and with themselves, and writh themselves, and writh themselves, and writh themselves, and having the guar to purchase immediately, a suitable piece of ground to be something made, an ox from seventy to a substitute the surface in the carrely made, an ox from seventy to a substitute the various fruits, to be introduced into purchase immediately, a suitable piece of ground to purchase immediately, a suitable piece of ground the purchase immediately, a suitable piece of ground to purchase immediately, a suitable piece

And in the Rev. Mr. Close's trials it was found Prompted by this confidence, our state would soon pensation, until the profits of the nursery will afford that when consumed in stalls and sheds, an present a more cheerful, thrifty, and honourable as to pay the Stockholders six per cent. per annum at acre of good turnips, will completely winter pect fine orchards of well selected fruit, would greet least. fat an ex of fifty score;"—

"When this root is given in the stall, from its very succulent nature, it becomes necessary to employ as much dry food as possible during the use of it, in order to the expeditional during the use of it is a matter of surprise, that the expedition of their fellow citizens; the there and the use of the undersigned it is a matter of surprise, that the expedition of the undersigned it is a matter of surprise, that the undersigned it is a matter of surprise, that the undersigned it is a matter of the traveller, which now is a matter of the undersigned it is a matter of the three and the

To the People of Maryland.

The undersigned having been appointed, at a public meeting held at the Exchange, on the 9th inst to the necessity and advantages dustry of the more thrifty and enterprising citizens of the institutions for the more thrifty and enterprising citizens of the institution to the necessity and advantages dustry of the more thrifty and enterprising citizens of the more thrifty and enterprising citizens of the institution to the necessity and advantages dustry of the more thrifty and enterprising citizens of the more thrifty and enterprising citize of the object, will at once awaken you to a sense of dence at home, should pay tribute to industry and enterprize abroad, but we trust the time has come, when vades the United States; and considering the propa-

fruit, as the most eminent men in the most difficult trees, but it will not be in my power to supply them; departments of science or professional skill.

my own nursery and the several nurseries in this part
To remedy an acknowledged evil, it is first necessory to ascertain its cause—what then, let us inquire about 15 miles to a nursery and purchased all that

been for some time extensively practised in in our soil and climate? on the contrary, it is appre-about 50 miles on the other side of Baltimore. He is

Amongst the certain advantages to be derived to

That there is, at present, lamentable imperfection Marylanders will no longer wilfully endure this state gation of fine fruits, as essentially connected with this in the quality of almost every species of fruit, culti-of ignominious dependence.

JOSEPH TOWNSEND. J. S. SKINNER.

March 11th, 1820.

<sup>\*</sup> The Editor of this paper, will gladly give 30 cents per gallon for a few barrels of choice cider.

† To be paid in instalments as wanting.

### Kitchen Garden for March.

From the Practical American Farmer, published by Fielding Lucus.

Continued from No. 50, p. 399. Radishes.

beginning, middle, or latter end of this month linch deep, in proportion to their size.

Thin the early crops of radishes, where the plants stand too close; pull up the worst, and for eating.

A thin sprinkling of radish seed may now be sown among the general crops.

Celery.

April and June.

Beet Seed.

and the green and white sort for their leaves. &c.

The best plants, of the rich, dark red beet, are raised in the eastern states, and those who wish to have the best seed of this kind, may the root, and will grow from the smalles! procure them from Providence, as they fre-slips. When you have a bed of plants, suffi become white.

one foot asunder, drop the seed therein about without tops as with them. place.

ary with the following:

hound, catmint, angelica, lovage, gromwell the second year. and any other perennial herbaceous plants may

Towards the latter end of this month, or Georgia, &c. they may now sow the seeds of the trees are cut off by the ground, they will

any time in the next, sow seeds of all the above melons, cucumbers, squashes, tomatoes, eggfox-glove: these three last are biennials and do not flower until the second year; sow, also, seeds of the following annual plants, viz. borage, sweet fennel, sweet marjoram, sweet ba-Sow more seed to succeed those sown in last sil, summer savory, fenugreek, pot marigold, Mr. Thomas Coulter of Bedford County, anise, and carraway. All these seeds should Some of the short top, salmon, and purple he sown separately in beds of rich earth, and kinds should be sown in an open place, at the covered from the eight of an inch, to half an

Capsicums, Tomatoes, and Egg-plants.

for Seed.

Horse Rudish.

This plant is best cultivated by cutting from After the ground has been manured, and should all be taken off,) these slips should be

Southern States.

mentioned kinds, and of clary, smallege, and plants, okras, capsicums, or red peppers, &c.

### Peach Orchard.

Pennsylvania, gives the following directions for cultivating Peach Trees, which he has successfully pursued in Pennsylvania and Delaware for 45 years.

"Transplant your trees as young as possible, You should now sow some seed of each of where you mean them to stand: if in the kerleave the others two inches apart; clear them these in pots, and forward them for hot berinnel, so much the better-because in that case, from weeds of all kinds, and stir the earth so as to have strong plants ready for planting there will be no check of growth, which alwell about them. In dry, open weather, let in May, as soon as the night frosts shall have ways injures peach trees. Plant peach trees them be moderately watered, which will for-entirely disappeared. See April, May, &c. 16 feet apart, both ways, except you would ward their growth, and also render them crisp Planting out Cabbages, Beets, Turnips, &c. wish to take your wagon through the orchard to carry the peaches away; in that case give As soon as the weather is tolerably mild, in 24 feet distance to every fifth row, one way. this month, plant out cabbages, beets, carrots After transplanting, you may plough and harparsnips, turnips, &c. which were preserved row amongst your peach trees, for two years, Sow a small quantity of celery seed in the during the winter, to raise seed from; plant paying no regard to wounding or tearing them, beginning of this month, to be transplanted he different kinds at a considerable distance so that you do not take them up by the roots. in May. The seed should be sown on mellow from each other, as the farina, mixing, when in the month of March or April, in the third earth. For the method of treating it, see they are close together, changes the seed, so year after transplanting, cut them all off by the that they cannot be depended upon. Tie up ground; plough and harrow amongst them as the shoots to stakes, provided for that purpose, before, taking special care not to wound or You may now sow some of the different sorts as they advance for seeding, to prevent them tear them in the smallest degree, letting all of beet; the deep purple red for its rich root, from being broken down by winds, heavy rains, the sprouts or scions grow that will; cut none away, supposing six or more should come from the old stump; the young scions will grow up to bearing trees on account of the roots being strong. Let no kind of beasts into peach orchards. hoge excepted, for fear of wounding quently degenerate in the middle states, and cient to make choice of the finest slips, select the trees; as the least wound will greatly inthose which are without many fibres, (which jure the tree, by draining away that substance should all be taken off,) these slips should be which is the life thereof; if wounded although prepared by digging, make drills in the beds six or eight inches long, and will do as well the tree may live many years, the produce is not so great, neither is the fruit so good. Afone foot apart, and cover them in with about Being furn shed with these sets, and the ter the old stock is cut away, the third year an inch of earth. As many seeds are united ground trenched two spades deep, and well after transplanting, the sprouts or scions will together in one globule, several plants will fre-manured, stretch your line along the bed, then grow up, all round the old stump, from four to quently come up together; they may be trans with a dibble, make holes deep enough to re-six in number; no more will come to maturiplanted, leaving the largest plant in its own ceive the plants, at about nine inches distance ty, than the old stump can support and nourish : from each other, so that the upper part of the the remainder will die before they bear fruit. Pot and Medicinal Herbs. plant shall just come to the surface of the These may be cut away, taking care not to The latter end of this month, plant thyme, ground. When the whole row is planted, fill wound any part of any stock, or the bark. The hyssop, sage, lavender, and winter savory, for up the holes with rotten sifted manure; twelve sprouts growing all round the old stump, when the edgings of the borders. The suckers, inches from this, begin a second row, and so loaden with fruit, will bend and rest on the with small portions of root attached to them on until the bed is planted. Keep the bed ground in every direction, without injuring any are to be preferred; insert them into the clean from weeds, and once or twice in the of them. for many years, all of them being ground, as deep as they will bear, or strip the summer, remove the earth from the root about rooted in the ground, as though they had been old roots, spreading out the tops, and planting ax inches deep, and take off all the fibres planted. The stocks will remain tough and them deep; observe to water them in dry which may be produced, and again cover them the bark smooth for twenty years and upwards; weather. Or they may be planted in the herb- with fresh manure; the roots will thus be long, if any of the sprouts or trees from the old Rue, wormwood, tarragon, tansey, chamo taken up the next spring, when many if not them away, they will be supplied from the mile, common fennel, southernwood, feverfew, most of them, will be one and a half inches ground, by young trees, so that you will have common fennel, baum, burnet, spearmint, pep-diameter at the crown, and eight or nine inch-trees from the same stump for hundred years, permint, officinal scurvy grass, celandine, hoar es long; but they will be better to remain for as I believe. I now have trees 36, 20, 10, 5, and down to one year old, all from the same stump. The young trees coming up after any be set out in the herbary, by parting their roots. This is the principal month in the southern of the old trees split off, die, and are cut away, or slips therefrom; the best time for doing states for gardening; all manner of work hith-will bear fruit the second year; but this fruit this, is just when they begin to advance a little erto directed, may now be performed in the will not ripen so easily as the fruit on the old open ground successfully. In South Carolina, trees from the same stem. Three years after

be sufficiently large and bushy to shade the Sheep, &c. ground, so as to prevent grass of any kind from matting or binding the surface, so as to injure the trees."

#### TO MAKE FAT LAMB.

"To make or fatten lamb for the market let your ewes be well attended to, and fed upon a patch of rye; upon turnips or other corresponding food; affording abundant milk: as fast as your lambs fall, and can run well alone, all you have, are to be shut up together took place in this city yesterday, was extreme- England-no reign was ever more eventful in a dark pen or stall, of proportionate size to ly gratifying, and reflected great credit on thanhis-was there ever one under which the number of lambs you expect, having a their taste and exertion. The fine display of more extensive aggressions were commitnarrow trough, breast high to them, to be daily meat occupied upwards of sixty carts, which ted against the natural rights of man—more supplied with Indian corn meal, with the bran followed each other, and formed a very long wars undertaken against the principles of in it; and hanging up within their reach, one train. About forty-four of these carried each human freedom?—Have not these aggrescate with, or adjoin, a larger apartment, into neatly dressed in their white frocks, their hats the instigation of British councies?—by which you are to turn, ewes twice or thrice a being ornamented with variegated ribbons.— means of British intrigue—British gold—British to suckle their lambs; and to sleep all The horses were neatly harnessed, and by most ish power and thirst for monopoly? Let imnight with them.—Before turning the ewes out of them small portraits Washington & Frank-partial history answer these questions. No to pasture, each time, the lambs must be lifted lin were borne on their heads, which were immediate consequences of a particular nainto their small dark pen or stall (one six or tastily connected with the tops of the brid'es, ture are to be expected from the demise of eight feet square, is sufficiently large for thirty Each cart had a white flog, on which PENN this great personage. His successor has been lambs or more,) where they will have no room stlvania appeared in large characters; and to skip or play their fat away; here they will those with the goats had skin of morocco. nibble so much of the fine hay, and eat so much which we understand was tanned in 24 hours po nted the same overseers, and they work of the dry Indian corn meal, from want of oth after it was taken from the backs of the anithe frm on the old plan and with the same er employment, as to render themselves vora-mals. The mounted men added very much horses and im lements—so that we may reciously thirsty against the next meal of milk to the elegance of the procession; they were gard it as a succession without a change. Nor from their dams; which, with the other causes also dressed in their white frocks. Each rode so in Spain.—The revolution had progressed mentioned, makes them grow surprizingly a white hore; and we do not hesitate to say exactly to that point wich serves to let us see large and fat in a short time. Lambs thus that such a collection of fine horses was never that the play will soon open, but leaves us in educated, will often promiscuously suck the before exhibited in this city. A band of music ignorance of the plot of the drama. The Theewes, without knowing or being attached to preceded the earts; a neat boat about 50 feet atre is illuminated—the audience attends their own dams .- Hence a very great advan-long, mounted on wheels, and containing mu- he music plays - the next arrival will lift the tage: for when all grow large and strong, they sic and persons in the character of sailors, curtain, and let us see what is going on—to become capable of consuming more milk than succeeded them. In this boat a sailor was a single ewe can afford; and more especially occcupied in heaving the lead. On the stern as it is denominated, 24000 strong, have taken those ewes which have two or more lambs was written "CLAPIER," in honour of the Cadiz, or Cadiz seems rather to have taken it, each. For upon killing off all the lambs of an ineritorious and public spirited gentleman so cordially was it received—from the nature ewe, that ewe continues to give suck to the who raised EIGHTEEN of the beeves exhibited of the place, they can hold it against any force other lambs promiscuously as before, to the In the rear were several mounted men. The the king can muster—but it is supposed they great advantage of the surviving lambs, now whole procession exhibited a splendid appear—will muster him—and require him to sign the requiring additional nourishment. This is not ance, and proceeded through the streets with constitution of the Cortez, recognizing the printhe case when lambs run out at large with great order and decorum. their dams."

#### GREAT BRITAIN AND FRANCE.

FROM THE GAZETTE DE FRANCE.

The following important table of the state of Great Britain and France, in the year 1819, furnishes materials for much reflection:

G. Britain & Ireland. Surface, hectares, Population, individuals, 21,114,000 12,600,000 Agricultural capital,

Gross product of agriculture,

Gross product of manufactures 2,250,000,000 Horses, mules, &c. Oxen, &c. 7,200,000

40.860,000 Value of exports, ---Cotton imported, raw & wrought Public debt. Interest thereon, Revenue, Proportion of individuals.

1,800,600,000 827,790,000

#### Victuallers' Procession.

[Philadelphia Franklin Gazette.]

# THE FARMER.

BALTIMORE, FRIDAY, MARCH 17, 1820.

Many articles are on file, which we shall endeavour to compress into the next and last number. Those who expect to get their 50,000,000 Index, must first have paid their subscription; board of Europe? Let politicians decide, one 29,827,000 we can compel no one to take the paper, but consequence we will prophecy, and if it does france, 61,000,000,000 57,522,000,000 in a few instances been suffered to get it, with say nothing about that prediction. The com-

4,682,000 nuing our remarks on the cultivation of Tobac fections as long as time endures; some sup-

34,189,000 co, for the present; because we have already 1,000,000,000 \$70,000,000 given ample details as to the first steps; pre-25,000,000 10,500,000 paration of beds, planting, &c. &c. We have 20,000,000,000 3,050,000,000 something to add as to packing, prizing, &c. 1,000,000,000 232,000,000 it is intended to give a drawing of a prize, in-1,500,000,000 889,210,000 vented by the late Frederick Skinner of Calvert County-the Editor's Father.

#### The News! The News!

The last arrival brings news of the long The procession of the victuallers, which looked for death of King George III. of or more wisps or small bundles of fine hay for a side of beef; the remainder carried sheep, sions been committed—these wars been fothem to nibble at. This stall must communi-goats and pork. The drivers in the carts were mented—and rivers of human blood. shed at ciple, that men are really human beings-capable of feeling, and entitled to some share in government, instead of being reckoned and treated, as so many two legged sheep. But will the neighbou ing legitimat powers of Europe quietly permit even this assertion of right by the people. This extortion by his subjects, at the point of their bayonets from a legitimate monarch? and again-may not any attempt to interfere-disturb all the relations of powers as they ow sta d on the polit cal chequerwe have a right to expect that those who have not come true, like other wise prophets, we will 3,875,000,000 4,679,000,000 out having first paid in advance, will now hay motion in Spain, will completely dislodge all South America from her government and influence; and the nation that first acknowle g-We see no immediate occasion for conti-s its independence, will stand first in its afpose that our government will seize the golden opportunity, to be before-hand with England, to send able and virtuous republicans. to mediate differences among their chiefs, and encourage free principles. Then might, then ought all America to stand "ready" against all Europe, giving no offence, but having it well understood- 'nemo me impune lacessit." Some cynical politicians, suppose that Ferdinand has been instigated by England to reject the treaty, calculating on our reprisal of Florida, as a pretext for her taking a larger and richer slice elsewhere; but they for et that two English mi isters have pledged their "honours" to the contra y, a dit is well known that English ministers are all, all honourable

However, these are great matters of state, and we must take care not to get out of our

"Vessels large may venture more,

"But little boats should keep near shore."

There is nevertheless one political prayer to which every farmer will say, amen.-May something happen to lower the price of all we have to buy, and raise that of all we have to sell!!!

#### LIVE STOCK.

We were highly gratified to see the number of people attracted to view the fine Cattle, Sheep, and the large Hogs, fed and brought to this market by Mr. John Barney, of Delaware. They were exhibited to, and grea ly admired by a large concourse of people in Washington Square, on Wednesday last. We understand they will be slaughtered and offered for sale; the cattle by MESSES RUSKS, and the sheep by Mr. GEORGE ELLIOTT, in the course of next week .- Every citizen is interested in giving his mite of encouragement to those breeders On the Comparative Quantity of Nutritious of fine stock; who thus give the preference to our market .- In a subsequent number, we shall end avour to give a more minute account of these extraordinrry animals.

#### POETRY.

# Indian Student.

Or the Force of Nature.

From Susquehanna's utmost springs, Where savage tribes pursue their game, His blanket tied with yellow strings, A shepherd of the forest came.

From long debate the council rose, And viewing SHALUM's tricks with joy, To HARVARD' Hall, o'er wastes of snows, They sent the tawny coloured boy.

Awhile he writ, awhile he read, Awhile he learn'd the grammar rules; An Indian savage, so well bred, Great credit promis'd to the schools.

Some thought he would in law excel, Some said in physic he would shine; And one that knew him passing well, Beheld in him a sound divine.

But those of more discerning eye,
E'en then could other prospects shew,
And saw him lay his Virgil by,
To wander with his dearer bow.

The tedious hours of study spent, The heavy moulded lecture done, He to the woods a hunting went, But sigh'd to see the setting sun!

The shady bank, the purling stream, The woody wild, his heart possess'd The dewy lawn his morning dream In fancy's finest colours drest:

"And why, (he cried) did I forsake My native woods, for gloomy walls; The silver stream, the limpid lake, For musty books and college halls!

"A little could my wants supply— Can wealth and honour give me more? Or, will the sylvan god deny The humble treat he gave before?

"Where nature's ancient forests grow, And mingled laurel never fades, My heart is fixed, and I must go To die among my native shades."

He spoke, and to the western springs, (His gown discharg'd, his money spent,) His blanket tied with yellow strings, The shepherd of the forest went.

Returning to the rural train, The Indians welcom'd him with joy-The council took him home again, And blest the tawny colour'd boy.

\* Harvard College, at Cambridge, Massachusetts.

# Agriculture and Economics.

ria Medica, and Botany in Yale College.

bushel, gives 2240, the number of pounds of potatoes produced upon one acre.

Thirty bushels of wheat are considered a good cious matter.

According to the experiments of Dr. Pearson and Einhoff, about one third of the potato is nutritious matter. From the analysis of Einhoff, 7680 parts of potatoes afforded 1153 parts of starch; fibrous matter analogous to starch 540 parts; mucilage 312 parts. The sum of these products amount to about one third of the potatoes subject to the experiment.

Sir Humphrey Davy observes, that one fourth of the weight of potatoes at least may be considered nutricious matter.

One fourth of 22400, the product of an acre of ground, cultivated with potatoes, is 5600. The whole weight of a crop of wheat calculated at 30 bushels to the acre, and at 60 pounds to the bushel, gives 1800. Deducting one sixth from the wheat as a matter not nutricious, and the weight is reduced to 1500.

The nutricious matter of the crop of potatoes, to that of wheat is as 5600 to 1500, or as 56 to

The starch might be obtained by a very simple machine, recommended by Parmentier; and in seasons when potatoes are abundant, the potatoes might be converted to starch, and the starch be preserved for a length of time, and used as a substitute for wheat flour.

The machine alluded to is a cylinder of wood about three feet long and six inches in diameter, covered with sheet tin, punched outward so as to form a coarse grater, and turned by a crank. This cylinder is placed in a box of boards whose sides slope a little inward upon the principle of a hopper, and a tub of water is placed beneath. The potatoes are thrown into this box, and as the crank is turned they are crushed, and the starch or fecula subsides to the bottom of the water. It is well known, that potatoes are largely used in England mixed with flour to form a very good bread; the starch of the potato would of course answer much better.

#### TO DRY PEACHES.

The following mode of drying Peaches in adopted by Thomas Belanfee, of Egg-Harbour, New-Jersey.

He has a small house with a stove in it, and Matter which may be octained from an Acre drawers, in the sides of the house, lathed at of Land when cultivated with Potatoes or their bottom. Each drawer will hold nearly Wheat, by Dr. Eli Ives, Professor of Mate half a bushel of peaches, which should be ripe, and not peeled, but cut in two and laid on the In a good season an acre of suitable land well laths with their skins downwards so as to save cultivated will produce 400 bushels of potatoes the juice. On shoving the drawer in they are In Woodbridge, a town adjoining New-soon dried by the hot air of the stove and laid Haven, a crop of 600 bushels of potatoes has dirt, excellently flavoured, and command a potatoes weighs 56 pounds. Multiply 400, the nigh price in market. Pears thus dried eat number of bushels, by 56, the weight of a single like raisins. With a paring machine, which may be had for a dollar or two, apples or pears may be pared, and a sufficient quantity dried, to keep a family in pies, and apple bread and crop as the product of one acre of land. About milk, till apples come again. With a paring five sixths of wheat may be considered as nutricutters.

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FOR JOHN S. SKINNER, EDITOR.

At the corner of Market and Belvidere streets

BALTIMORE.